

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

June 2000



Focused on Progress...
Focused on Outcomes!



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

**ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION**

JUNE 2000

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A – EXECUTIVE SUMMARY.....	2
NOTABLE ACCOMPLISHMENTS.....	3
MAJOR COMMITMENTS.....	5
SAFETY/ISMS/CONDUCT OF OPERATIONS.....	6
REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS.....	9
TOTAL COST/SCHEDULE OVERVIEW.....	10
PERFORMANCE OBJECTIVES.....	11
KEY INTEGRATION ACTIVITIES.....	12
UPCOMING PLANNED KEY EVENTS.....	12
SECTION B – RESTORING THE RIVER CORRIDOR PROJECT SUMMARIES	13
REMEDIAL ACTION AND WASTE DISPOSAL PROJECT	14
DECOMMISSIONING PROJECTS.....	23
PROGRAM MANAGEMENT AND SUPPORT	30
SECTION C – TRANSITIONING THE CENTRAL PLATEAU PROJECT SUMMARIES.....	36
GROUNDWATER/VADOSE ZONE INTEGRATION PROJECT.....	37
SURVEILLANCE/MAINTENANCE AND TRANSITION PROJECTS.....	46

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report consists of three sections: Section A - Executive Summary, Section B – Restoring the River Corridor Project Summaries, and Section C – Transitioning the Central Plateau Project Summaries.

Section A – Executive Summary. This section provides an executive level summary of Bechtel Hanford, Inc.'s (BHI) performance information for the current reporting month and is intended to bring to Management's attention that information considered to be most noteworthy. The Executive Summary begins with a description of notable accomplishments that are considered to have made the greatest contribution toward safe, timely, and cost-effective cleanup. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones and FY00 Management Commitment milestones. Safety statistics are also included. Issues that require management and/or regulator attention and resolution status are addressed. Fiscal year-to-date ERC Project cost and schedule variance analysis is summarized. The Key Integration Activities section highlights site activities that cross contractor boundaries and demonstrates the shared value of working as a team to accomplish the work. The Executive Summary ends with a listing of major upcoming planned key events within a 90-day period.

Section B – Restoring the River Corridor. This section contains more detailed monthly activity information and performance status for the three projects within the 'Restoring the River Corridor' outcome. These three projects consist of the Remedial Action and Waste Disposal Project, Decommissioning Projects, and the Program Management and Support (PM&S) Project.

Section C – Transitioning the Central Plateau. This section contains more detailed monthly activity information and performance status for the two projects within the 'Transitioning the Central Plateau' outcome. These two projects consist of the Groundwater/Vadose Zone (GW/VZ) Integration Project and the Surveillance/Maintenance and Transition (SM&T) Projects.

Information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements; yellow indicates that significant improvement is required; and red indicates unsatisfactory conditions requiring immediate corrective actions.

Section A: Executive Summary

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000

SECTION A – EXECUTIVE SUMMARY

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

NOTABLE ACCOMPLISHMENTS:

The 300 Area South Process Pond's original FY00 scope was completed in April, including all of the additional "stretch" scope that was added to the baseline in December 1999. Over 215,000 metric tons (237,000 tons) of contaminated material was removed from the South Process Pond during remediation. Work continues on Plume #4 that was discovered in March. An additional 22,611 metric tons (24,925 tons) of contaminated waste will be remediated from Plume #4.

The Washington State Department of Ecology (Ecology) approved increasing the Hanford remedial action goal for arsenic from 6.5 mg/kg to the Washington state background value of 20 mg/kg. Arsenic was used for pest control in the first half of the 1900's in orchards once located on the Hanford Site.

Draft B of the 300-FF-2 Operable Unit Focused Feasibility Study (FFS) and Proposed Plan was submitted to the regulators and HQ for final review. Public comment period is scheduled to begin in mid-June.

The 100 N Area remedial action subcontract was awarded on April 13. Soil remediation at 100 N Area is scheduled to begin in July to meet the requirements of the Hanford Site RCRA permit.

The F and DR Removal Action Work Plan was revised to incorporate the F Reactor fuel storage disposition plan and air monitoring plan.

Nine large concrete safe storage enclosure (SSE) pourbacks were completed at F Reactor.

At the D and H Reactors, pre-surveys were completed and room-by-room walkdowns and estimates were initiated for initiating interim safe storage (ISS). Supplemental funding is being pursued.

The draft B Reactor Feasibility (Phase II) Assessment Report was submitted for review on May 16.

The first-floor electrical panels and the Viewing Room stairwell conduit were removed in the 233-S Plutonium Concentration Facility during April. Installation of the hardwood airlock in the Loadout Hood Room was also completed.

A proposal was presented for the purpose of downgrading the emergency classifications of the inactive production reactors. HQ reviewed the proposal and agreed with the conclusions.

Environmental Restoration Contractor (ERC) Procurement and Property Management personnel participated in a value engineering study with other Hanford Site contractors to identify process improvements in investment recovery operations. Through implementation of the proposed changes, site-wide savings of approximately \$1.02M per year may be realized.

The HQ Integrated Planning, Accountability, and Budgeting System (IPABS) Part B budget formulation for FY02 was completed in April. Hanford Site priorities were also addressed with FHI and RL.

The 200-CW-1 and 200-CS-1 Operable Unit Remedial Investigation/Feasibility Study Work Plans (Rev. 0) were submitted to RL on April 24. The regulators also completed the data quality objective (DQO) review for 200-TW-1 and 200-TW-2.

Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2000

NOTABLE ACCOMPLISHMENTS:

A draft DQO summary report for the Phase I 618-11 Burial Ground tritium investigation was issued for public review. This report will provide the basis for the Phase II tritium investigation workscope.

The In Situ Redox Manipulation (ISRM) well drilling was completed in the 100 D Area on April 24, with a total of 16 wells drilled and installed to a planned depth.

All five groundwater pump and treat systems continued removing contaminants from the groundwater. All operated above cumulative planned availability through April.

The GW/VZ draft System Assessment Capability (SAC) Rev. 0 Assessment Description, Requirements, Software Design and Test Plan was submitted to RL on April 4.

The Groundwater/Vadose Zone (GW/VZ) Integration Project's draft Science and Technology (S&T) Roadmap was issued for review on April 28.

Legacy waste removal was completed at both the KE and KW Reactors in May.

Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

MAJOR COMMITMENTS:

Tri-Party Agreement Milestones:

Twelve Tri-Party Agreement milestones have been completed through April, all ahead of schedule.

Green

Total Tri-Party Agreement Milestones Due in FY00	16
Total Planned Through April	12
Total Completed Through April	12

Remaining Tri-Party Agreement Milestones to be Completed in FY00	4
Forecast Ahead of Schedule	1
Forecast On Schedule	3
Unrecoverable	0

FY00 Management Commitment Milestones:

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Status: Complete. Draft was transmitted to RL on April 28.

Install Wells and Initiate Injection of the Barrier for Phase I of the In Situ REDOX Groundwater Remediation (PBS ER08) due September 30.

Status: Forecasted to be complete by September 30. (16-well installation completed on April 24.)

Complete the Semi-Annual Groundwater/Vadose Zone Report (December 1999 – March 2000) (PBS VZ01) due May 31.

Status: Forecasted to be completed by May 31.

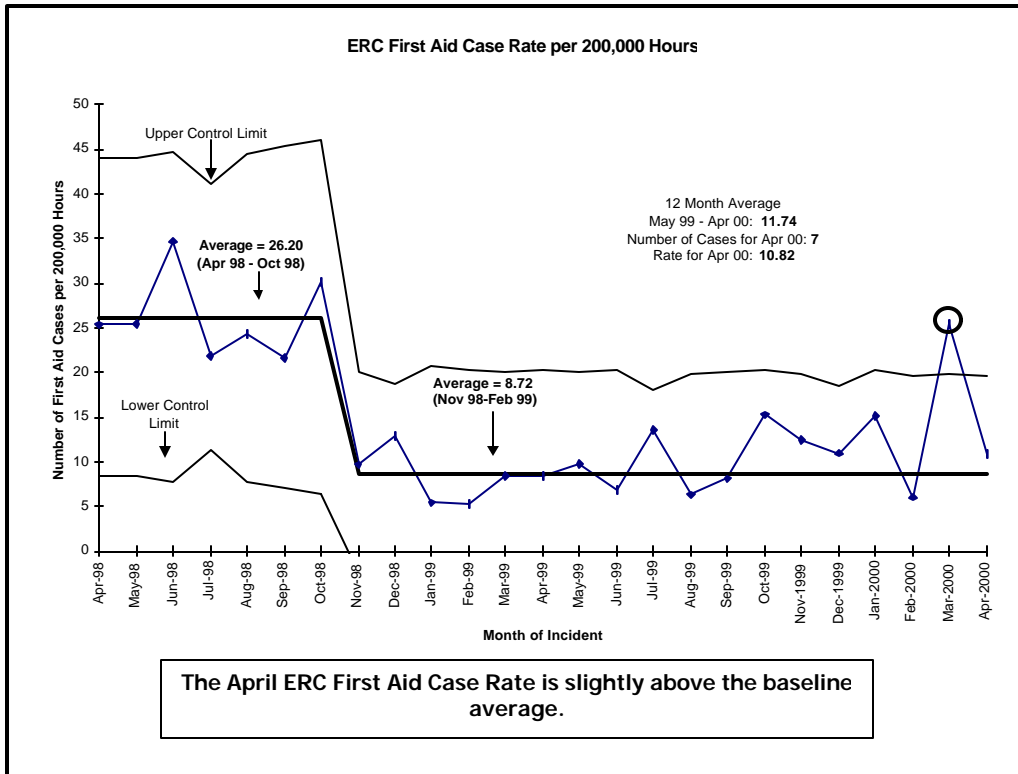
EM Corporate Performance Measures:

	DWP FY00	FY00 Mgmt Commitments	Current Baseline	Forecast for FY00	Completed YTD
Waste Site Assessments	121	167	168	168	166
Waste Site Cleanups	24	41	40	40	13
Technology Deployments	0	4	4	4	1

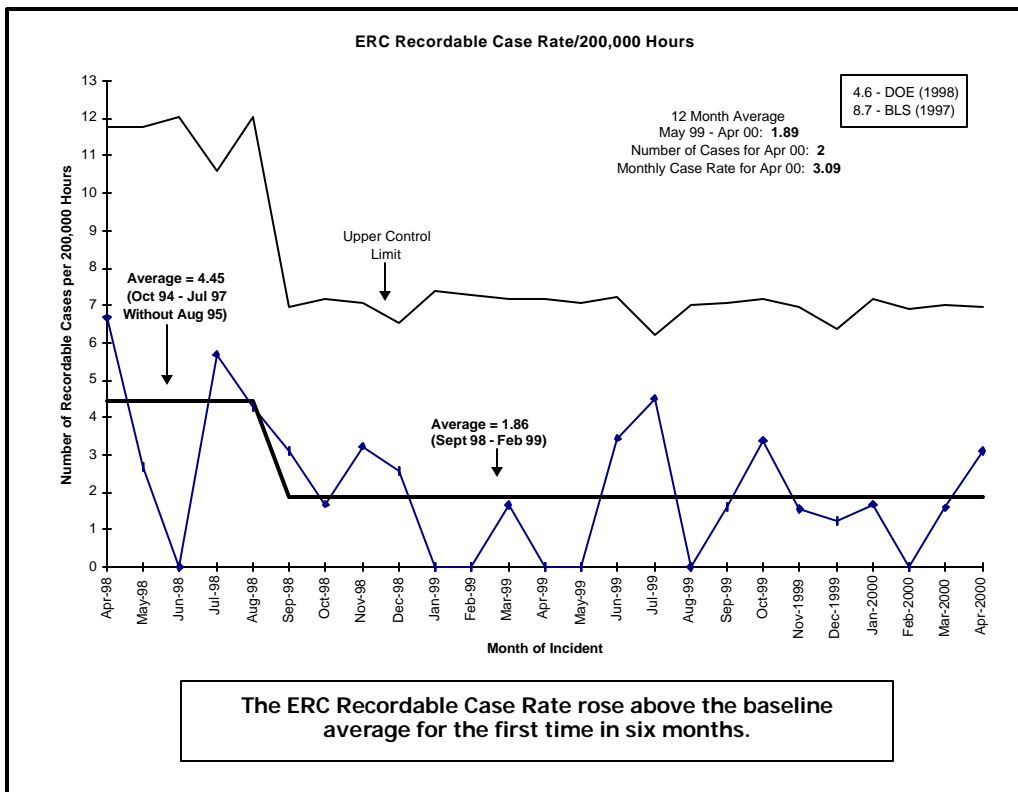
ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract):



Green

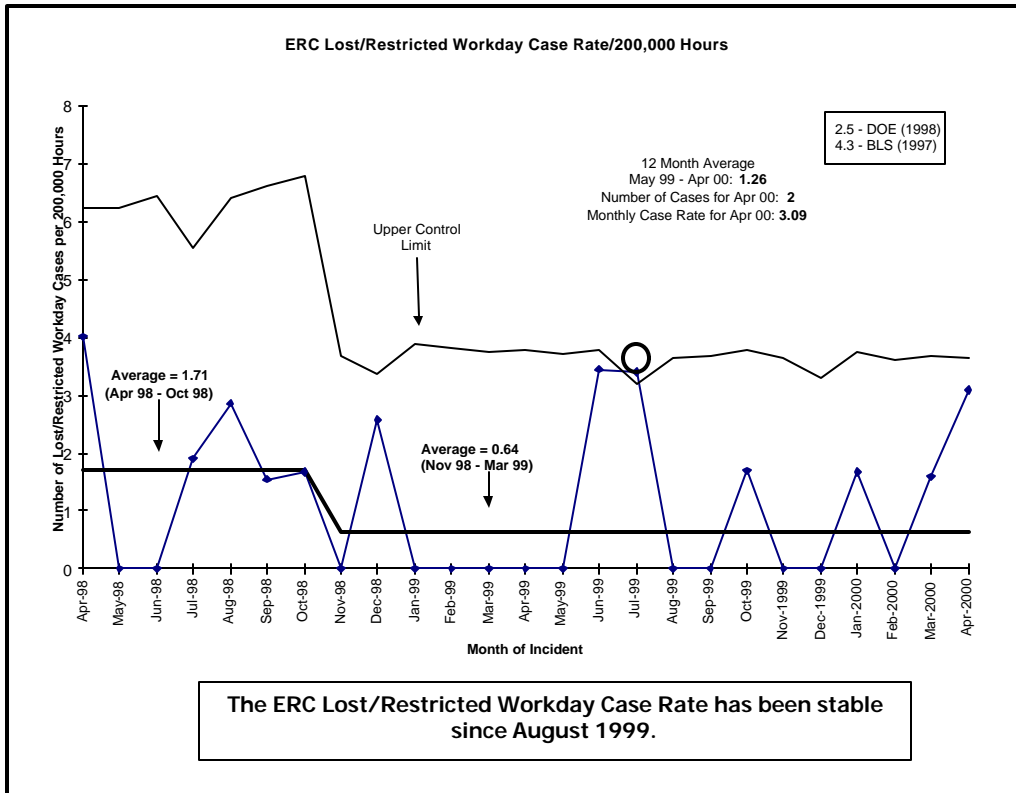


Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:



• Safety:

	YTD	Current Month (Apr)	Current Month Comments
First Aid	62	7	(2) bites/stings, (1) pain, (2) strains, (1) contusion, (1) laceration
Restricted Work Case	1	2	(1) pain, (1) strain
Lost Workday Case	4	0	N/A
OSHA Recordable	8	2	(1) pain, (1) strain (*same incidents as above)

-ONE MILLION HOURS WERE REACHED MONDAY, MAY 22, 2000.

-The last lost workday began October 8, 1999.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

• ISMS:

DOE EM Performance Agreement: Develop and implement Integrated Safety Management (ISM) - September 30, 2000

Green

Status: Revision 2 of the ERC Integrated Safety Management System Description (BHI-01199, Rev. 2) was submitted for DOE-RL approval on May 8, 2000. This revision incorporates the following information requested by the ISMS Verification Team:

- Descriptions of the Detailed Work Planning, Results Management Team, and Baseline Change Proposal budgeting and business planning processes;
- Measures to monitor and evaluate system effectiveness; and
- Discussion of line management roles and responsibilities in a project matrix organization

With DOE-RL approval of this submittal, BHI will have achieved the institutionalization of the ISMS process (Phase I).

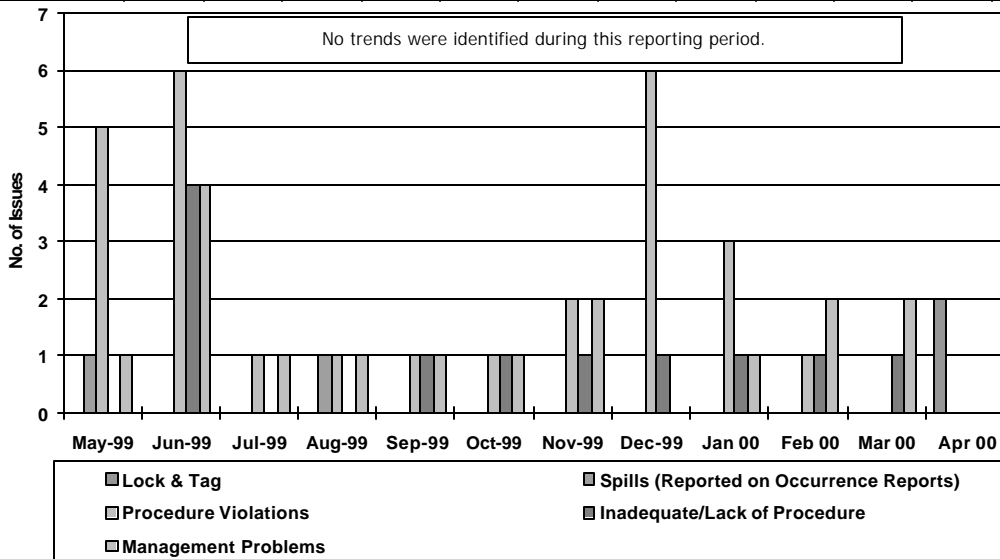
Note: The DOE ISMS Verification Team concluded in their report (DOE/RL-2000-12) that BHI has adequately implemented the ISMS process (Phase II).

Opportunities for Improvement: The five opportunities for improvement noted in the Executive Summary of the ISMS Verification Team Report (DOE/RL-2000-12) were evaluated and responses developed into an ERC ISMS Opportunities for Improvement Action Plan. This plan details these responses, assigns responsibilities, and schedules their completion dates. It was transmitted to DOE-RL on May 19, 2000.

• Conduct of Ops:

ERC-CATS (Corrective Action Tracking System) Trend Data 5/1/99 through 4/30/00

	May-99	Jun-99	Jul-99	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan 00	Feb 00	Mar 00	Apr 00
Lock & Tag	0	0	0	0	0	0	0	0	0	0	0	2
Spills (Reported on Occurrence Reports)	1	0	0	1	0	0	0	0	0	0	0	0
Procedure Violations	5	6	1	1	1	1	2	6	3	1	0	0
Inadequate/Lack of Procedure	0	4	0	0	1	1	1	1	1	1	1	0
Management Problems	1	4	1	1	1	1	2	0	1	2	2	0



Green

Each potential trend is reviewed and evaluated for impact on the project, and then given the appropriate level of attention based on a graded approach.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS (Total ER Contract) continued:

April Conduct of Ops Issues:

Lock and Tag Issues:

Condition Description: At the 233-S facility, the key to the controlling organization panel was in the panel, granting access to the lockbox containing Lock Out/Tag Out (LO/TO) locks and tags.

Corrective Action Plan: Project in process of formulating corrective action.

Condition Description: At KR4 and HR3, the LO/TO padlocks were labeled with adhesive backed numbers which may deteriorate under environmental conditions.

Corrective Action Plan: Project in process of formulating corrective action.

REGULATORY/EXTERNAL/DOE-RL & HQ ISSUES AND REQUESTS:

Site-Wide Seniority (SWS): Current BHI/THI manual staffing totals 269 personnel. Approximately 225 position openings will become available within the Fluor Hanford organization during FY 2000. Currently, 48 BHI/THI personnel have applied for transfer through the LAMP (Labor Assets Management Program) Process. Continued loss of personnel will result in additional costs and potential impacts to critical work path activities.

Green

Status: Lamping of ERC personnel has begun. For the months of January through April, 25 personnel have transferred to Fluor Hanford. A site-wide strategy is required to maintain trained and critical resources on ER work. Lamping of personnel has resulted in additional costs associated with the training of new personnel without compensation from the receiving organization.

Radiological Control Technician (RCT) and Industrial Hygiene Technician (IHT)

Lamping: 36% turnover in RCT's and 50% turnover for IHT's during the last 20 months (collectively the THI HAMTC turnover for LAMPs is 37.5%)

Green

Impacts:

- (1) It costs ~\$20K each to recruit RCT's from the outside and train them (this does not include the costs to projects for delays and overtime required to support the work operations due to RCT shortages).
- (2) This high turnover rate impacts BHI's ability to assure continuity in compliance.

Status:

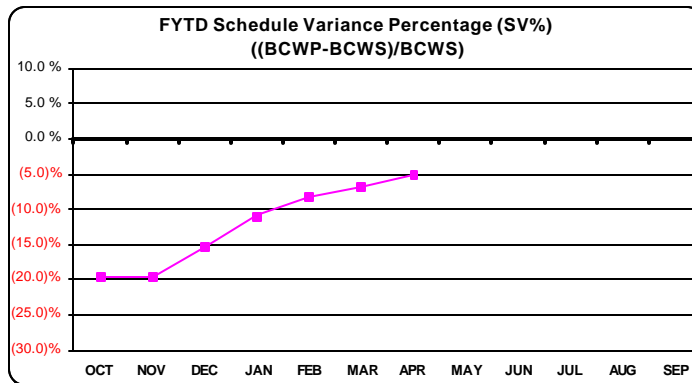
- (1) BHI has initiated discussions with PHMC to attempt promoting a site-wide solution to the RCT shortage problem. The RCT shortage is a nation-wide problem. BHI would like to promote resurrecting the Columbia Basin College two-year academic program for RCT's.
- (2) BHI Labor Relations and THI are in the process of developing incentives to reduce the number of RCT's from Lamping to another contractor.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2000

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract):



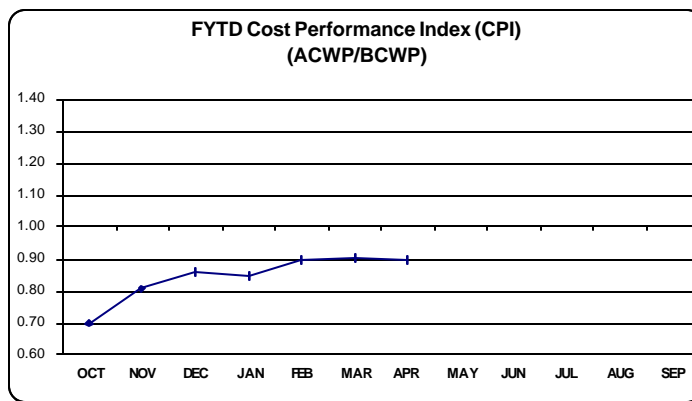
Green

Desired performance is better than -10%.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DWP	11,612	10,506	10,211	12,760	10,155	10,793	12,259	10,599	10,197	12,389	10,820	12,798
DWP (Accum)	11,612	22,118	32,330	45,090	55,245	66,037	78,296	88,895	99,092	111,481	122,301	135,100
CURRENT PERIOD												
BCWS	14,558	8,508	12,288	15,102	13,068	13,445	15,190	13,148	12,554	14,531	11,831	15,404
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797					
FISCAL YEAR TO DATE												
BCWS	14,558	23,066	35,354	50,456	63,524	76,969	92,159	105,307	117,861	132,392	144,223	159,627
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469					
SV	(2,847)	(4,516)	(5,408)	(5,475)	(5,204)	(5,297)	(4,690)					
SV%	-19.6%	-19.6%	-15.3%	-10.9%	-8.2%	-6.9%	-5.1%					
Yr End Sch Carry Over	268	353	240	320	192	270	1,385					

For variance explanation by PBS see Project Status Section of each project.

Green



Desired performance is 1.0 or less.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Carry Over
CURRENT PERIOD													
ACWP	8,190	6,786	10,729	12,465	14,171	12,199	14,037						
BCWP	11,711	6,838	11,396	15,035	13,338	13,352	15,797						
FISCAL YEAR TO DATE													
ACWP	8,190	14,976	25,705	38,170	52,341	64,540	78,577						
BCWP	11,711	18,550	29,946	44,981	58,320	71,672	87,469						
CV	3,521	3,574	4,240	6,811	5,978	7,131	8,892						
CPI	0.70	0.81	0.86	0.85	0.90	0.90	0.90						
EAC (Cumulative)	8,190	14,976	25,705	38,170	52,341	64,540	78,577	94,867	108,882	124,693	137,321	152,037	153,422
Yr End Budget Variance	1,967	3,638	4,793	5,074	5,521	5,482	6,206						1,385

For variance explanation by PBS see Project Status Section of each project.

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

TOTAL COST/SCHEDULE OVERVIEW (Total ER Contract) continued:

FY 2000 PERFORMANCE FYTD APRIL 2000 (\$K)

	DWP BCWS	CURRENT BCWS	FYTD			YTD SCHEDULE VARIANCE		YTD COST VARIANCE			FY00 EAC
			BCWS	BCWP	ACWP	\$	%	\$	%	*CPI	
ER01 100 Area R/A	27,364	29,960	16,344	16,847	13,406	503	3.1%	3,441	20.4%	0.80	26,825
ER03 300 Area R/A	3,157	7,031	4,949	5,241	3,404	292	5.9%	1,837	35.1%	0.65	6,171
ER04 ER Waste Disposal	16,146	20,471	12,274	12,538	10,983	264	2.2%	1,555	12.4%	0.88	19,272
RA-Subtotal	46,667	57,462	33,567	34,626	27,793	1,059	3.2%	6,833	19.7%	0.80	52,268
ER02 200 Area R/A	3,534	3,669	3,080	2,888	2,058	-192	-6.2%	830	28.7%	0.71	2,826
ER08 GW Management	19,394	22,515	14,283	12,762	12,324	-1,521	-10.6%	438	3.4%	0.97	22,724
VZ01 GW/VZ	11,325	11,437	6,524	5,336	5,049	-1,188	-18.2%	287	5.4%	0.95	11,283
GW/VZ-Subtotal	34,253	37,621	23,887	20,966	19,431	-2,901	-12.1%	1,555	7.4%	0.93	36,833
ER06 D&D	8,446	17,422	9,706	8,733	8,307	-973	-10.0%	426	4.9%	0.95	17,093
DD-Subtotal	8,446	17,422	9,706	8,733	8,307	-973	-10.0%	426	4.9%	0.95	17,093
ER05 S&M	12,291	13,751	8,254	7,664	7,921	-590	-7.1%	-257	-3.4%	1.03	13,907
ER07 Long-Term S&M	47	47	5	13	20	8	160.0%	-7	-53.8%	1.54	47
S&M-Subtotal	12,338	13,798	8,259	7,677	7,941	-582	-7.0%	-264	-3.4%	1.03	13,954
ER10 ERC PM&S	27,597	25,695	12,380	12,373	12,032	-7	-0.1%	341	2.8%	0.97	25,646
ER10 RL PM&S	5,800	7,628	4,360	3,073	3,073	-1,287	-29.5%	0	0.0%	1.00	7,628
PM&S-Subtotal	33,397	33,323	16,740	15,446	15,105	-1,294	-7.7%	341	2.2%	0.98	33,274
GRAND TOTAL	135,101	159,626	92,159	87,468	78,577	-4,691	-5.1%	8,891	10.2%	0.90	153,422

Green

*CPI = ACWP/BCWP

Cost/Schedule Status:

Cost Variance

At the end of April, the ER Project had performed \$87.5M worth of work, at a cost of \$78.6M. This accounts for a favorable cost variance of \$8.9M (10.2%). The positive cost variance is attributed to DR and H subcontract savings due to asbestos abatement changes and sampling efficiencies, site excavation/backfill savings, reduced contract award amounts, FR savings in site prep and staff reductions, borehole drilling and test pit trenching costs less than planned (due to efficiencies), and FY 1999 year-end accrual reversals.

Schedule Variance

The ER Project is \$4.7M (-5.1%) behind schedule for April. The negative schedule variance is attributed to delayed Integration Project S&T activities, undetermined subpanel schedules, and formation of characterization core team; delayed groundwater well maintenance (resin regeneration/purchase) and monitoring; 233-S Facility roof duct removal, sampling, and analysis; 224B Facility inspection/survey delayed due to B-Plant exhaust system repairs; and late billings for site-wide assessments.

PERFORMANCE OBJECTIVES:

River Corridor Initiative (Complete remediation of 60 sq. miles, including Hanford townsite): Initiative is currently identified as a Superstretch item, with an approximate value of \$5.0M. **High visibility public access opportunities**; also a Superstretch item (bike trail, road to B Reactor, and boat ramp at Hanford townsite). Feasibility plan completed; evaluating options.

Green

ENVIRONMENTAL RESTORATION PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2000

KEY INTEGRATION ACTIVITIES:

300 Area Acceleration Closure: BHI supported Fluor Hanford in the development of a Baseline Change Request (BCR) to prepare an accelerated closure plan for the 300 Area

Green

Status: Walkdowns have been completed. Project team continues to develop Micro Computer-Aided Cost Estimating System (MCACES) inputs and outputs to feed the Fluor Hanford Technical Baseline Management System. Estimate modeling activities are nearing completion.

Excavation at Wanapum Cache Site: The Wanapum tribe has requested ER support for trenching on the terrace of the Columbia River southeast of the 100-H Area, to uncover the remains of three Wanapum cellars used to store fishing gear, camp items, and preserved foods relating to a traditional fishing village last occupied in 1943.

Green

Status: A BCP was approved to provide support in excavating up to twelve exploratory trenches on the terrace of the Columbia River southeast of the 100-H Area.

Spent Nuclear Fuel (SNF): Draft waste shipping and receiving plans (WSRPs) were prepared in support of the upcoming K Basin waste shipments to ERDF expected in June.

Green

UPCOMING PLANNED EVENTS:

Tri-Party Agreement Milestone M-93-05, Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment, due June 30.

Green

Tri-Party Agreement Milestone M-13-23, Submit 200-TW-1 Workplan, due August 31.

Green

Tri-Party Agreement Milestone M-13-24, Submit 200-TW-2 Workplan, due August 31.

Green

Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section B - River Corridor Information

June 2000

*Restore the
River Corridor*

- Remedial Action and Waste Disposal Project
- Decommissioning Projects (Interim Safe Storage 233-S, 224B)
- Program Management and Support

Focused on Progress...

Focused on Outcomes!



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Remedial Action and Waste Disposal Project (RAWD)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Remedial Action & Waste Disposal Project (RAWD):

ACCOMPLISHMENTS: RAWD

ERDF Transportation and Operations: During April, shipments totaling 52,351 metric tons (57,708 tons) of contaminated waste were transported to the ERDF. 360,373 metric tons (397,245 tons) have been received in FY 2000. To date, 2,087,350 metric tons (2,300,921 tons) of material have been received and placed in the disposal facility.

The first batch of "slug baskets" from 105 KW Legacy Waste were successfully disposed in the ERDF. The slug baskets required special handling under the provisions of a Waste Shipping and Receiving Plan that was formulated to safely dispose this elevated smearable alpha waste stream.

100 B/C: Complete. 684,731 tons removed.

100-H Area Remedial Action: The 100-H-5 Sludge Burial Pit waste site baseline excavation was completed.

Ecology personnel collected samples in the 100 Areas of pre-Hanford agricultural areas for arsenic analysis. A meeting to discuss the resolution of the "old orchard" residual arsenic issue and a tour of the 100-HR Operable Unit (OU) was completed with Ecology. It was agreed that Ecology will forward a letter to RL approving the increase of the Remedial Action Goal (RAG) from 6.5 mg/kg to the Washington State background value of 20 mg/kg.

300 Area Remedial Action: Thirty-three intact drums previously excavated from Landfill 1A were opened during the month to determine drum contents and need for sampling. Most of the drums were determined to be empty and were crushed and sent to ERDF. Nine drums that contained small quantities of liquids were pumped dry and sent to ERDF for disposal. The liquid pumped from the drums was submitted for lab analysis.

A revision to the Auditable Safety Analysis and Final Hazard Classification for the 300-FF-1 Remedial Action Project has been approved by RL resulting in a "radiological" classification. The authorization basis document requires restaging the drums containing oil and uranium waste at the 618-4 Burial Ground. The restaging includes construction control access, with berm, passive barrier and fire lane to preclude significant spread of contamination in the event of a fire. A baseline change request was approved to support this activity.

More than 215,000 metric tons (237,000 tons) of contaminated material have been removed from the South Process Pond. This marks completion of the original scope contained in the FY 2000 Detailed Work Plan and all of the additional "stretch" scope that was added to the baseline in December 1999. Work continues on Plume #4 that was discovered in March 2000 and involves an additional 22,611 metric tons (24,925 tons).





100-NR-1 Remediation: ERC mobilization activities are proceeding and include routing of a 13.8 kV line to the frisking tent location, installing a new dirt road to the pump and treat tent, installation of fencing, and design/installation of a protection system for the existing 100-N water export line.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JUNE 2000

ACCOMPLISHMENTS continued: RAWD	
<p>Soil remediation at 100-N is scheduled to begin in July to meet the requirements of the Hanford Site RCRA permit. A remedial action subcontract was awarded to Foster Wheeler Environmental Corporation on April 13. A pre-construction meeting with Foster Wheeler was held on April 18. Foster Wheeler is preparing commercial and technical submittals for field activities. Ecology has prepared an approval letter for the Sampling and Analysis Plan. They are also reviewing the Remedial Design Report/Remedial Action Work Plan.</p> <p>100-NR-1 TSD Sites Design: The 100% Design Package for 116-N-1 is currently in review with an anticipated Final Design completion in mid June. The Hazard Classification target completion is in November.</p> <p>300 Area Assessment: Draft B for the Focused Feasibility Study and Proposed Plan was submitted to EPA, Ecology and DOE-HQ for final review. Public comment period is scheduled to begin in mid June 2000.</p> <p>100 Area Assessment: Work continued to support transmittal of the 100 Area Burial Ground Proposed Plan Rev. 1 scheduled for the third week of May. Public comment period should begin following transmittal to DOE.</p>	
SAFETY/ISMS/CONDUCT OF OPERATIONS: RAWD	
See Executive Summary Section.	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: RAWD	
<p>Waste Minimization 126-F-1 Ash Pit: The project deployed two off-the-shelf technologies (geo-probe and sodium iodide detector) to perform in-situ characterization that resulted in 50% reduction in waste site volume. Preliminary cost savings is estimated at \$5M.</p> <p>Status: Developing plan for site close-out.</p>	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: RAWD	
<p>300-FF-2: Work is ongoing to prepare decision documents for the public review period scheduled for late May. Ecology has issues with the Preliminary Remediation Goals (PRG's) being developed for 300-FF-2. EPA, who supports the PRG's, will be addressing issues with Ecology with support from RL.</p> <p>Status: EPA and Ecology are involved in discussions over PRG issues. HQ has directed that all decision documents supporting ROD's will require approval by HQ. This could impact public comment and ROD schedules for both operable units.</p> <p>100 Area Burial Grounds: Approval of the ROD is planned by August 30.</p> <p>Status: EPA and Ecology are involved in discussions over PRG issues. HQ has directed that all decision documents supporting ROD's will require approval by HQ. This could impact public comment and ROD schedules for both operable units.</p>	 
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): RAWD	
<ul style="list-style-type: none"> DOE Secretarial: None identified at this time. 	
<ul style="list-style-type: none"> DOE EM Performance Agreement: None identified at this time. 	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: RAWD

- **TPA Milestones:**

Milestone	Description	Due Date	(F)/(A) Date
M-15-23B	Submit 300-FF-2 Focus Feasibility Study (FFS) and Proposed Plan for Regulator Review	11/30/99	11/22/99 (A)
M-15-00B	Complete all 300 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules	12/31/99	11/22/99 (A)
M-16-92B	ERDF Cells 3 & 4 Ready to Accept Remediation Waste	12/31/99	12/09/99 (A)
M-15-00A	Complete all Remaining 100 Area Operable Unit Pre-ROD Site Investigations under Approved Work Plan Schedules (100-KR-2, 100-KR-3, 100-FR-2, 100-IU-2, and 100-IU-6)	12/31/99	12/21/99 (A)
M-16-08B	Complete Remediation and Backfill of 19 Waste Sites in the 100-BC-1 and 100-BC-2 Operable Units as Defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area	3/31/00	2/25/00(A)
M-16-13A	Initiate Remedial Action for 100-FR-1 Operable Unit	9/29/00	8/01/00 (F)
M-16-03E	Complete Remediation of the Waste Sites in the 300-FF-1 Operable Unit (excluding the 618-A Burial Ground), to Include Excavation, Verification, and Backfilling	12/31/00	12/31/00 (F)
**M-16-26B	Complete Remediation, Backfill and Revegetation of 51 Liquid Waste Sites and Process Effluent Pipelines in the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, and 100-HR-1 Operable Units as defined in the Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE/RL-96-17)	2/28/01	2/28/03 (F)

Green

Yellow

****Unrecoverable due to funding constraints. RL needs to negotiate resolution with the regulators. The path forward is to submit a TPA change package and evaluate out-year budgets and priorities.**

- **DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PERFORMANCE OBJECTIVES: RAWD

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	100/300 Area waste excavation, disposal and backfill/regrade.	Baseline work is projected to be completed per PI requirements.

Green

PERFORMANCE MEASURES: RAWD – (River and Plateau)

	DWP FY00	FY00 Mgmt Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
Waste Sites	24	41	40	40	13
100 Area Burial Ground Assessments	0	46	47	47	47 ^a
300-FF-2 Assessments	119	119	119	119	119 ^a
Other Assessments	2	2	2	2	0
Tons	389K	N/A	627K	627K	397K

Green

^a Proposed Plan, Draft A submittal.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

STRETCH AND SUPERSTRETCH GOALS: RAWD

FY00 RAWD "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Perform Excavation in Unfunded Sites in 100 B/C, HR-1, FR-1, 100, and 300 Area and Plumes:</i>		
(1) <i>Extended Plumes at 316-1 S Pond (BCP-20043)</i>		\$1,202.8K
(2) <i>Additional Plumes at 100-DR (BCP-20050)</i>		\$905.8K
(3) <i>Additional Plumes at 100-HR (BCP-20119)</i>		\$240.3K
(4) <i>Additional Plumes at 100-HR (BCP-20130)</i>		\$426.7K
(5) <i>Additional Plumes at 300-FF (BCP-20113)</i>		\$669.4K
(6) <i>Additional Plumes at 100-DR (BCP-20116)</i>		\$175.2K
(7) <i>Defer Backfill at 100-DR (BCP-20166)</i>		(\$93.2K)
(8) <i>Additional Plumes at 100-DR (BCP-20189)</i>		\$124.9K
S/Total Remedial Action Stretch Goals:	\$4,560.0K	\$3,651.8K

Green

FY00 RAWD "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>Complete Remediation of 60 Sq. Mi. of Hanford Site:</i>		
(1) <i>Complete Remediation of Hanford Townsite</i>	\$755.0K	\$0.0K
(2) <i>Complete Remediation of JA Jones Pit #1 and 600-23 (300-FF-2)</i>	\$1,500.0K	\$0.0K
(3) <i>Other Remedial Actions</i>	\$1,395.0K	\$0.0K
S/Total Remedial Action Superstretch Goals:	\$3,650.0K	\$0.0K

Green

**Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE: RAWD)

• **Schedule:**

Remedial Action & Waste Disposal Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	16,344	16,847	503
ER03 300 Area Remedial Actions	4,949	5,241	292
ER04 ER Waste Disposal	12,274	12,538	264
TOTAL Remedial Actions	33,567	34,626	1,059

Green

PBS-ER01 – 100 Area Remedial Action

Schedule Variance = **+\$503K; +3.1%** [Last Month: +\$41K; +0.3%]

Cause: Ahead of schedule on 100-DR-1 pipeline excavation, 100-HR excavations, and NR-1 crib remediation design and site prep.

Resolution: None required.

PBS-ER03 – 300 Area Remedial Action

Schedule Variance = **+\$292K; +5.9%** [Last Month: +\$235K; +5.7%]

Cause: Excavation of Landfill 1B is ahead of schedule; expect early completion.

Resolution: None required; will complete ahead of schedule based on tonnage quantities.

PBS-ER04 – Environmental Restoration Waste Disposal

Schedule Variance = **+\$264; +2.2%** [Last Month: -\$13K; -0.1%]

Cause: Ahead of schedule primarily due to 100-HR excavations and 300 Area excavations being ahead of schedule.

Resolution: None required.

• **Cost:**

Remedial Action & Waste Disposal Project	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER01 100 Area Remedial Actions	16,847	13,406	3,441
ER03 300 Area Remedial Actions	5,241	3,404	1,837
ER04 ER Waste Disposal	12,538	10,983	1,555
TOTAL Remedial Actions	34,626	27,793	6,833

Green

PBS-ER01 – 100 Area Remedial Action

Cost Variance = **+\$3441K; +20.4%** [Last Month: +\$2682K; +18.7%]

Cause: Savings in DR-1 subcontract costs due to asbestos abatement changes and sampling efficiencies; FR savings in site prep and staff reductions; labor savings on B/C backfill activities; waste minimization savings at HR near-river excavation sites.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE continued: RAWD)	
<p>Resolution: Savings will be used to perform other remediation work.</p> <p>PBS-ER03 – 300 Area Remedial Action Cost Variance = +\$1837K; +35.1% [Last Month: +\$1675K; +38.5%]</p> <p>Cause: Management and administrative cost efficiencies at Landfills 1A/1B, and FY 1999 accrual reversal in South Process Pond remediation.</p> <p>Resolution: Savings will be used to perform other remediation work.</p> <p>PBS-ER04 – Environmental Restoration Waste Disposal Cost Variance = [+\$1555K; +12.4%] [Last Month: +\$1411K; +13.3%]</p> <p>Cause: Reflects FY 1999 over accrual.</p> <p>Resolution: Savings will be used to perform other remediation work.</p>	
REGULATORY ISSUES: RAWD	
<p>Tri-Party Agreement Milestone: (1) Milestone M-16-26B due February 28, 2001. Complete remediation and backfill of 51 liquid waste sites at B/C, DR and HR is impacted by B/C pipelines.</p> <p>Status: A negotiated resolution with the regulators is required. The path forward is to submit a Tri-Party Agreement Change Package to the regulators for review and evaluate out year funding and priorities.</p>	<div style="border: 2px solid black; padding: 5px; width: 80px; margin: 0 auto;">Yellow</div>
<p>Arsenic Strategy for 100 Area Remediation: Variance sampling was completed in November 1999 for 1607-H2 and 1607-H4 septic systems. Arsenic data in the overburden and shallow zone soils exceeded Remedial Action Goals (RAGs). The average ranged from 8-11 mg/kg, maximum – 30 mg/kg (Hanford Background 6.5 mg/kg). Records indicate that no arsenic was used in processes at the 100 H Area. Historical research indicates lead arsenate was used as a pesticide in pre-Hanford agricultural lands (predominantly orchards).</p> <p>Status: The plan to address the elevated arsenic levels encountered during the confirmation sampling activities was pulled back by the Washington State Department of Ecology during the March Unit Manager's Meeting. This delay may cause a potential slippage to the recently negotiated Tri-Party Agreement Milestone M-16-26C, Complete Remediation and Backfill of 10 Liquid Waste Sites in the 100 H Operable Unit by May 31, 2001. Ecology obtained additional arsenic samples throughout the 100 Areas of the Hanford site. A meeting was held and Ecology agreed with the previous resolution (using the Washington State background evaluation of 20 mg/kg) and stated they would send RL a letter confirming the increased RAG for arsenic. Once RL receives the letter from Ecology, a BCP will be processed for the scope change. If required, a TPA change package will be initiated after approval of the BCP.</p>	<div style="border: 2px solid black; padding: 5px; width: 80px; margin: 0 auto;">Yellow</div>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): RAWD	
None identified at this time.	
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): RAWD	
None identified at this time.	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

INTEGRATION ACTIVITIES: RAWD

ERDF: *In the support of Hanford Site partnering, draft waste shipping and receiving plans (WSRPs) have been prepared for the two initial waste streams expected from the Spent Nuclear Fuel (SNF) Project's K Basin clean out work. Initial delivery of waste from the SNF is expected in June.*

Green

Decommissioning Projects (D&D)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Decommissioning Projects (D&D)

ACCOMPLISHMENTS: D&D

Reactor ISS:

105-F Reactor: Design Engineering revised the F & DR Removal Action Workplan (RAW) to incorporate the F Reactor Fuel Storage Disposition Plan and Air Monitoring Plan. The document was sent to DOE on May 4 for distribution to the regulators.

SSE pourback subcontractor completed nine large pourbacks at 105-F Reactor. Areas included below grade demolition areas.

105-DR Reactor: Completed all 105-DR north reactor demolition and loadout. Areas included were north gas recirculation tunnel, accumulator trench and north side slabs.

Completed demolition of the above grade exhaust plenum and south reactor sample rooms at 105-DR. Project completed the demolition and loadout of the below grade exhaust plenum and the south gas recirculation tunnel.

105-D & H Reactor: Issued MOU for access authorization with SM&T into 105-D & H Reactors. Completed pre-surveys and began room-by-room walkdowns and estimates. Received approval of Reactor Legacy Waste Management Plan to allow cleanup for access to remaining rooms for walkdown.

Engineering subcontractor began preparation of the H Reactor Auditable Safety Analysis.

105-B Reactor Safe Storage:

Project engineering distributed the 60% Draft Feasibility (Phase II) Assessment Report for review and comment. A meeting was held with the B Reactor Museum Association, RL, MACTEC and BHI on April 20, to review the document. The 90% review document was submitted for review on May 16.

233-S Pu Concentration Facility:

Removed first floor PMMA panels.

Completed radiological survey of Process Hood floor area.

Collected six Process Hood and Viewing Room samples for characterization.

Initiated dry cleanup of the Process Hood floor. Collected 27 polyjars (approximately ½ liter each in size) of loose material.

Completed Viewing Room stairwell conduit removal.

Removed acorn nuts and hold down strips from Process Hood PMMA panels.

Completed installation of hardwood airlock in Loadout Hood room.

Completed core drilling of two 12" ventilation holes on the south wall of the Loadout Hood room.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS: <i>D&D</i>											
<i>See Executive Summary Section.</i>											
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: <i>D&D</i>											
<i>None identified at this time.</i>											
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>D&D</i>											
<i>None identified at this time.</i>											
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): <i>D&D</i>											
<ul style="list-style-type: none"> DOE Secretarial: <i>None identified at this time.</i> 											
<ul style="list-style-type: none"> DOE EM Performance Agreement: 224B: Complete <u>draft</u> EE/CA and submit to regulators – July 2000. Complete <u>draft</u> SAP and submit to regulators – September 2000. <p>Status: EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 - 2003 DWP funding that would lead to near term 224B decommissioning. The risks associated with 224B were evaluated and a change to the FY 2001 - 2003 DWP funding guidance was recommended that discontinues assessment and planning activities associated with 224B decommissioning. A BCP will be submitted to close out the remainder of the 224B activities in FY 2000.</p> 											
<ul style="list-style-type: none"> TPA Milestones: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #333; color: white;"> <th style="width: 15%;">Milestone</th> <th style="width: 40%;">Description</th> <th style="width: 15%;">Due Date</th> <th style="width: 30%;">(F)/(A) Date</th> </tr> </thead> <tbody> <tr> <td style="background-color: #d3d3d3;">M-93-05</td> <td>Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment</td> <td>6/30/00</td> <td>6/30/00 (F)</td> </tr> </tbody> </table>				Milestone	Description	Due Date	(F)/(A) Date	M-93-05	Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment	6/30/00	6/30/00 (F)
Milestone	Description	Due Date	(F)/(A) Date								
M-93-05	Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment	6/30/00	6/30/00 (F)								
<ul style="list-style-type: none"> DNFSB Commitment: <i>None identified at this time.</i> 											

Yellow

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PERFORMANCE OBJECTIVES: D&D

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	Reactor ISS and preparation of facilities for decommissioning.	Baseline reactor ISS work is projected to be completed per PI requirements.
	Maintain facilities until D&D (233-S).	FY 2000 work resequenced via BCP-20141, approved March 14, 2000. New performance indicators drafted and submitted for approval.
Transition Central Plateau to Support Long-Term Waste Management	Maintain facilities until D&D (224B).	224B baseline work impacted by regulator refusal to review EE/CA and FY 2001 funding guidance to defer D&D. The SAP will not be completed and the associated performance measure will require revision or deletion.

Green

Yellow

PERFORMANCE MEASURES: D&D

	DWP FY00	FY00 Mgmt. Commitments	Current Baseline (Incl. Baseline Changes)	Forecast For FY00	Completed YTD
Facilities	0	0	4 ^b	4 ^b	3 ^c

Green

^b 116-D, 116-DR, 119-DR and 108-F

^c 116-D, 116-DR, 119-DR (108-F Final Report scheduled for 9/00)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

STRETCH AND SUPERSTRETCH GOALS: *D&D*

FY00 D&D "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
<i>*Continue F Reactor Interim Safe Storage (ISS) (BCP-20151)</i>	\$2,000.0K	\$1,490.8K
<i>Public Access to Hanford Townsite and B Reactor</i>	\$750.0K	\$0.0K
<i>S/Total D&D Superstretch Goals:</i>	<i>\$2,750.0K</i>	<i>\$1,490.8K</i>

Green

Yellow

**Status: Requires funding support outside of ER to execute Superstretch.*

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): *D&D*

- Schedule:**

Decommissioning Projects	BCWS	BCWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	9,706	8,733	-973
<i>Total D&D</i>	<i>9,706</i>	<i>8,733</i>	<i>-973</i>

Green

PBS-ER06 – Decontamination and Decommissioning

Schedule Variance = -\$973K; -10.0% [Last Month: -\$659K; -8.3%]

Cause: 233-S decommissioning; delay in removal of exhaust roof duct pending completion of scaffolding installation and decontamination and fixative application of the Process Hood. Procurement of material and equipment are currently behind schedule.

Resolution: Exhaust duct removal is planned to start in July after completion Process Hood decontamination.

Cause: 224B entry was restricted due to inoperable B-Plant exhaust system. Workarounds were developed and walk down of the non-gallery side was completed in March. Draft EE/CA was submitted to Regulators during February 2000. EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 – FY 2003 DWP funding that would lead to near term 224B decommissioning.

Resolution: The risks associated with 224B were evaluated and a change in the FY 2001 – FY 2003 DWP funding guidance was recommended that discontinues FY 2000 assessment and planning activities associated with project decommissioning. A BCP is being prepared to close out remainder of 224B activities in FY 2000.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: D&D

• **Cost:**

Decommissioning Projects	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER06 Decontamination & Decommissioning</i>	8,733	8,307	426
TOTAL D&D	8,733	8,307	426

Green

PBS-ER06 – Decontamination and Decommissioning

Cost Variance = **+\$426K; +4.9%** [Last Month: +\$349K; +4.8%]

Cause: Sample analysis cost is significantly lower than expected.

Resolution: Savings will be used to perform other remediation work.

Cause: 233-S – Additional cost to correct airflow and installing electrical upgrades in the viewing room.

Resolution: Cost overruns are being trended. Engineering controls have been implemented to resume characterization activities.

REGULATORY ISSUES: D&D

D&H Reactor Impacts of TPA milestones: The acceleration of the Reactor ISS is not consistent with the current M-93 milestones, especially the competitive procurement and renegotiating milestones for DR, D, and H at the same level of detail as F and C Reactors.

Green

Status: The new Ecology lead for D&D was briefed on that status of D&D by the RL and BHI Project Managers. The issues that have been raised by EPA concerning the TPA milestones was discussed and Ecology agreed to contact EPA. The EE/CA for D & H ISS Reactors was sent to Ecology for review to keep the process moving until the issues can be resolved.

105-B Reactor Safe Storage: Discussion with the EPA on the Tri-Party Agreement Milestone M-93-05, "Issue B Reactor Phase II Feasibility Study Engineering Design Report for Public Comment" (6/30/00), indicates that the document would meet the milestone requirements but would not be issued for public comment. The EPA has requested that the feasibility study be expanded to include all building hazards (including expanded tour route) and an EE/CA be prepared and submitted for public comment. Currently, the project does not have a clear path forward relative to hazard identification and resolution. Funding has not been authorized for hazard reduction.

Green

Status: Work with appropriate RL personnel to determine a path forward; submit appropriate change control.

F & DR Reactor:

Issue #1: Analysis results for the 105-DR Fuel Storage Basin (FSB) indicate a potential problem with Chromium and PCB levels exceeding cleanup levels. A meeting is being scheduled to discuss the issue with the Regulators and the options for demolition of the FSB.

Green

Status: Options range from the original plan to demo the walls down to -15 feet and leaving the rest to complete removal of the basin.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

REGULATORY ISSUES continued: D&D

Issue #2: The 105-D/H EE/CA schedule required regulator review to be completed by April 19 to meet the established DWP goals and deadlines. EPA has stated that they want to address the TPA Reactor milestones before approving an Action Memo for D&H.

Green

Status: EPA has also proposed sending the EE/CA to EPA's National Remedy Review Board located in Washington DC. The EE/CA will be split to remain below the limit for the Remedy Board to maintain schedule. Working with EPA and Ecology to ensure an action memorandum can be issued by the end of FY 2000.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): D&D

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): D&D

224B: EPA has declined to participate in FY 2000 assessment activities because they do not support FY 2001 - 2003 DWP funding that would lead to near term 224B decommissioning.

Yellow

Status: The risks associated with 224B were evaluated and a change to the FY 2001 - 2003 DWP funding guidance was recommended that discontinues FY 2000 assessment and planning activities associated with 224B decommissioning. A BCP will be submitted to close out the remainder of the 224B activities in FY 2000.

INTEGRATION ACTIVITIES: D&D

None identified at this time.

Program Management and Support (PM&S)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SECTION B – RESTORING THE RIVER CORRIDOR

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Program Management & Support (PM&S)

ACCOMPLISHMENTS: PM&S

Compliance, Quality, Safety & Health:

Safety & Health:

Completed Integrated Self-Assessment of the Hazardous Waste Operations and Emergency Response (HAZWOPER) program with Field Support. There were no findings or observations.

BHI Safety and Hygiene personnel presented the Disposition Paper for Determination of Emergency Planning Categorization for the Hanford Site Retired Production Reactors. This paper was prepared for the purpose of downgrading the emergency classifications of the inactive production reactors. DOE-HQ reviewed the paper and agreed with the conclusions of the document.

The Radiation Protection Program Manual (RPPM), BHI-RC-01 was signed and has been distributed to training coordinators. It will be used in 10CFR835.103 training for those individuals responsible for implementing the radiological control program.

Compliance and Quality Programs/Price Anderson Amendment Act (PAAA):

Conducted an independent assessment of the corrective action plan submitted to the Environmental Protection Agency (EPA) and Ecology in response to the Notice of Violations (NOVs) concerning management of IDW (tri-butyl phosphate). BHI Management directed Compliance and Quality Programs (CQP) to conduct an independent assessment to verify that commitments made in the response letter have been addressed and implemented, and are effective. Fieldwork was completed in mid April and a final report submitted on May 24.

Developed FY 2000 Compliance and Quality Programs Assessment Schedule information for Gerry Bell (RL) to be incorporated with RL's Master Assessment Schedule Chart of the Hanford Site. Detailed information on completed and scheduled assessments was provided.

Issued a revision to BHI-CQP-01, Compliance and Quality Programs, Procedure 2.8, "Evaluation of Potential Non-compliances with the QA Rule." The procedure describes the process for evaluating potential noncompliances with the Code of Federal Regulations (CFR), 10 CFR 830.120, "Quality Assurance Requirements" and is consistent with the rule. The changes provide sufficient information to allow Compliance and Quality Programs to apply the graded approach to the evaluations.

Program and Project Support:

Document Information Services (DIS):

Facilities and Office Services (F&OS) - 'Sixth Sense' technology has been activated in nine mid-volume, digital copiers at the ERC. One of the many benefits of this technology is the remote access capabilities. This affords the technicians the ability to access the copier's internal diagnostic center via a phone line connection. This enables the technicians to come prepared with the correct parts to immediately fix the problem.

Project Procurement and Property Management:

BHI Property management personnel participated in a Value Engineering Study that was put on by DYN/FHI to identify process improvements in the Investment Recovery Operations. To summarize the study, the team developed a site-wide integrated and automated approach to investment recovery operations that will: streamline the excess process, reduce assets, and facilitate economic development. With implementation of proposed changes, a site-wide savings of approximately \$1.02M per year could be realized.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

ACCOMPLISHMENTS continued: PM&S

Project Technical Support (Engineering & Technology):

Technology Applications:

Bechtel Hanford, Inc. lead the effort with assistance from Fluor and PNNL in the preparation, assembling and shipping of posters and handout materials for the U.S. Department of Energy (DOE), Richland Operations Office Capital Hill exhibit titled "Strength through Science". The exhibit was attended by several Congressmen, Senators and their staff and was judged as one of the best among the DOE Complex.

An additional \$350K of Office of Science and Technology funds for CDI was received and planned on the project.

Environmental Technologies:

Environmental Information Systems – Twenty-four 200 Area Group 2 reclassification sites were signed off by the Environmental Protection Agency and the Washington State Department of Ecology. The reclassification of these sites will result in cost savings of \$1.44M.

Completed Waste Minimization Target – (1) reduced the volume of clean fly ash needing to be remediated at the 126-F-1 Ash Pit. Employing the newly developed "Small Diameter Geophysical Logging System" to characterize the ash pit, resulted in 50% of the site needing no further cleanup.

Automation Technology:

Completed contractor reply to the U.S. Department of Energy (DOE) contract modification letter regarding the implementation of DOE N 205.3 (Computer password security implementation).

Planning & Controls:

Staff Group:

Issued rates for the Fiscal Years 2001 through 2003 Detailed Work Plan to RL for review.

Strategic Planning:

Provided support to the Hanford site planning initiatives including support to alternate work prioritization studies initiated by RL.

LRP & Baseline Support:

Completed the HQ's IPABS Part B budget formulation data submittal for FY 2002. Interfaced with FHI and RL on Hanford site priorities.

Site Modeling Tool - Compiled and provided to FHI the ER Baseline, Code of Account, milestone, and budget data to be used for Hanford site integration planning as requested by RL. ER data will help form an integrated P3 long range schedule model that will be used for evaluating alternative Site planning scenarios.

Issued Draft FY 2001 – FY 2003 ER DWP funding guidance targets to project functional management and RL for review.

Reporting & Change Control:

The ER Mid-Year Review status presentation was conducted with RL and HQ personnel on May 8-9.

Continued to work with RL to update/revise the ER Change Control process for RL-requested adjustments. The expected outcome is a revised Change Control procedure.

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SAFETY/ISMS/CONDUCT OF OPERATIONS: <i>PM&S</i>																	
<i>See Executive Summary Section.</i>																	
BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVMENT: <i>PM&S</i>																	
<i>None identified at this time.</i>																	
LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: <i>PM&S</i>																	
Planning & Controls: <i>Detailed work planning (DWP) process for FY 2001 – FY 2003 Kick-off Meeting – June 5</i>		<div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div>															
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): <i>PM&S</i>																	
<ul style="list-style-type: none"> • DOE Secretarial: <i>None identified at this time.</i> 																	
<ul style="list-style-type: none"> • DOE EM Performance Agreement: <i>None identified at this time.</i> 																	
<ul style="list-style-type: none"> • TPA Milestones: <i>None identified at this time.</i> 																	
<ul style="list-style-type: none"> • DNFSB Commitment: <i>None identified at this time.</i> 																	
PERFORMANCE OBJECTIVES: <i>PM&S</i>																	
<i>None identified at this time.</i>																	
PERFORMANCE MEASURES: <i>PM&S</i>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: black; color: white;"> <th style="text-align: center;">Technology Deployment</th> <th style="text-align: center;">PBS</th> <th style="text-align: center;">(F)/(A) Date</th> </tr> </thead> <tbody> <tr> <td><i>Liquid-Level Detection Technology (Ultrasonics)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>10/99 (A)</i></td> </tr> <tr> <td><i>Remote Concrete Sampling System (Brokk with automated concrete coring attachment)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>06/00 (F)</i></td> </tr> <tr> <td><i>3-D Visual and Gamma Ray Imaging System</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>06/00 (F)</i></td> </tr> <tr> <td><i>Liquid-Level Detection Technology (Thermography and/or Ultrasonics)</i></td> <td style="text-align: center;"><i>RL-ER05</i></td> <td style="text-align: center;"><i>09/00 (F)</i></td> </tr> </tbody> </table> <div style="display: flex; align-items: center; justify-content: flex-end; margin-top: 10px;"> <div style="font-size: 4em; margin-right: 10px;">}</div> <div style="border: 3px double black; padding: 5px; display: inline-block;">Green</div> </div>			Technology Deployment	PBS	(F)/(A) Date	<i>Liquid-Level Detection Technology (Ultrasonics)</i>	<i>RL-ER05</i>	<i>10/99 (A)</i>	<i>Remote Concrete Sampling System (Brokk with automated concrete coring attachment)</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>	<i>3-D Visual and Gamma Ray Imaging System</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>	<i>Liquid-Level Detection Technology (Thermography and/or Ultrasonics)</i>	<i>RL-ER05</i>	<i>09/00 (F)</i>
Technology Deployment	PBS	(F)/(A) Date															
<i>Liquid-Level Detection Technology (Ultrasonics)</i>	<i>RL-ER05</i>	<i>10/99 (A)</i>															
<i>Remote Concrete Sampling System (Brokk with automated concrete coring attachment)</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>															
<i>3-D Visual and Gamma Ray Imaging System</i>	<i>RL-ER05</i>	<i>06/00 (F)</i>															
<i>Liquid-Level Detection Technology (Thermography and/or Ultrasonics)</i>	<i>RL-ER05</i>	<i>09/00 (F)</i>															
STRETCH AND SUPERSTRETCH GOALS: <i>PM&S</i>																	
<i>None identified at this time.</i>																	

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): PM&S

- Schedule:**

Program Management & Support	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	12,380	12,373	-7
ER10 RL Program Management & Support	4,360	3,073	-1,287
TOTAL PM&S	16,740	15,446	-1,294

Green

PBS-ER10 – Program Management and Support

Schedule Variance = **-\$1294K; -7.7%** [Last Month: -\$1529K; -11.5%]

Cause: Late billing on site-wide assessments.

Resolution: RL is discussing billing/timing with other site contractors.

- Cost:**

Program Management & Support	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER10 ERC Program Management & Support	12,373	12,032	341
ER10 RL Program Management & Support	3,073	3,073	0
TOTAL PM&S	15,446	15,105	341

Green

PBS-ER10 – Program Management and Support

Cost Variance = **+\$341K; +2.2%** [Last Month: +\$33K; +0.3%]

Cause: Fewer special requests and audits have resulted in savings; baseline management efficiencies.

Resolution: None required.

REGULATORY ISSUES: PM&S

Nez Perce Native Seed Production: Funding is required to support native seed production with the Nez Perce after May 30. Native seed production is a cooperative effort among the four tribes and is the only means to obtain native plants grown by Native Americans for ERC revegetation activities. Additionally, the Natural Resource Trustee Council views this production activity as mitigation under Natural Resource Damage Assessment. Funding is required to produce revegetation products for current ERC projects, maintain a source of native seed plant production for future revegetation activities, and to fulfill agreements with the Tribal Nations.

Green

Status: A BCP has been processed to provide funding to continue native seed production.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): PM&S

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): PM&S

None identified at this time.

INTEGRATION ACTIVITIES: PM&S

Bechtel Hanford, Inc. lead the effort with assistance from Fluor and PNNL in the preparation, assembling and shipping of posters and handout materials for the U.S. Department of Energy (DOE), Richland Operations Office Capital Hill exhibit titled "Strength through Science". The exhibit was attended by several Congressmen, Senators and their staff and was judged as one of the best among the DOE Complex.

Green

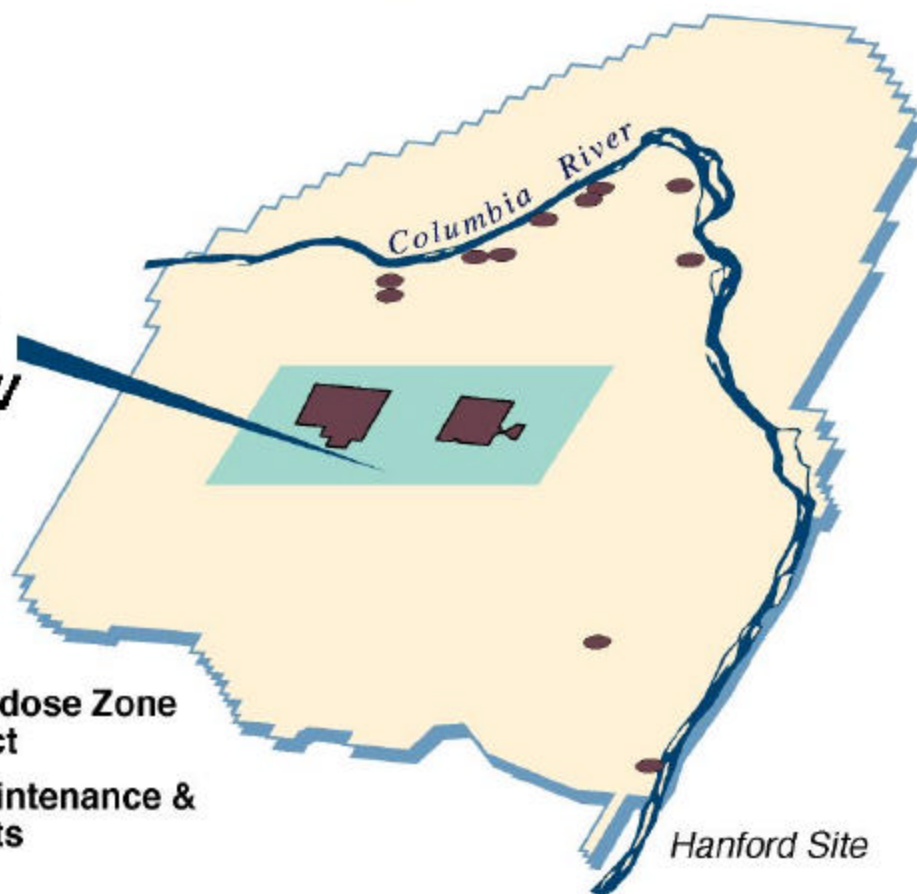
Richland Operations Office
Environmental Restoration

Environmental Management Performance Report

Section C - Central Plateau Information

June 2000

*Transition the
Central Plateau*



- Groundwater / Vadose Zone Integration Project
- Surveillance / Maintenance & Transition Projects

Focused on Progress...
Focused on Outcomes!



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Groundwater/Vadose Zone Integration (GW/VZ)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JUNE 2000

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Groundwater/Vadose Zone Integration (GW/VZ):

ACCOMPLISHMENTS: GW/VZ

200 Area Assessment: Delivered 200-CW-1 and 200-CS-1 Rev. 0 work plans to RL, and EPA completed the review of the TW-1/TW-2 DQO.

Groundwater Management:

Long Term Monitoring: Met with Ecology and obtained locations for fifteen RCRA groundwater monitoring wells to establish TPA milestone M-24-00L for calendar year 2000. All wells will be installed surrounding Single Shell Tanks. Wells were staked in the field and all locations photographed. Still awaiting TPA change request approved by Ecology.

Tritium Investigation: Completed a draft of the DQO report (the basis of the Phase II Tritium investigation scope) and summarized the information into a characterization plan.

Pump and Treat Systems: All groundwater pump and treat systems have operated above cumulative planned availability through April.

ISRM Drilling/Injection: Completed drilling all sixteen ISRM wells planned for FY 2000 (April 24).

Science and Technology: The National Academy of Science review held their first committee meeting. The 15-member committee will meet five more times to complete their study (2-3 times at Hanford, 2 times offsite for writing).

System Assessment Capability: Completed RL review of the focus sheet on SAC design document in preparation for public and regulatory comment and management review (in June).

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: GW/VZ

See Executive Summary Section.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: GW/VZ

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: GW/VZ

Key ISRM FY 2000 Activities:

FY 2001 Activities: (Planned Activities)

Activities: Drill and install twenty-four ISRM Barrier Wells. Utilize all wells for ISRM Barrier emplacement.

(Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2001.)
Drill and install four ISRM compliance wells.

FY 2002 Activities: (Planned Activities)

Activities: Drill and install twenty-four ISRM Barrier Wells. Utilize all remaining wells for ISRM Barrier emplacement.

(Approximately 240 meters of additional ISRM Barrier length to be constructed in FY 2002.)
Demobilize evaporation pond (FY 2002 or FY 2003 Activity).

Green

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): GW/VZ

- **DOE Secretarial:**

Transmit Update of the Vadose Zone Science and Technology Roadmap (PBS VZ01) due April 30.

Green

Status: Draft was provided to RL on April 14.

Complete Installation of the Wells and Initiate Injection of the Barrier for Phase II of the In Situ REDOX Manipulation Project (PBS ER08) due September 30.

Status: Forecast to be completed by September 30. (Well installation was completed on April 24.)

Complete the Semi-Annual Groundwater/Vadose Zone Report (December 1999 – March 2000) due May 31.

Status: Draft was delivered to HQ on May 16.

- **DOE EM Performance Agreement:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS) continued: GW/VZ

TPA Milestones:

Milestone	Description	Due Date	(F)/(A) Date
M-13-22	Submit U-Pond/Z-Ditches Cooling Water Group Work Plan	12/31/99	12/14/99 (A)
M-24-00K	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 1999 if Required	2/29/00	2/17/00 (A)
M-24-41	Install Three (3) Additional RCRA Wells for the SST WMA S-SX	2/29/00	2/17/00 (A)
M-24-42	Install One (1) Replacement Well for the 216-S-10 Pond	2/29/00	2/17/00 (A)
M-24-43	Install One (1) Additional RCRA Well for the SST WMA TX-TY	2/29/00	2/17/00 (A)
M-24-44	Install One (1) Replacement Well for the 216-B-3 Pond (This is an extension of a CERCLA vadose borehole.)	2/29/00	2/17/00 (A)
M-24-45	Install Two (2) Additional RCRA Wells for the SST WMA B-BX-BY	2/29/00	2/17/00 (A)
M-13-23	Submit 200-TW-1 Work Plan	8/31/00	8/31/00 (F)
M-13-24	Submit 200-TW-2 Work Plan	8/31/00	8/31/00 (F)
*M-13-00K	Submit One (1) 200 NPL RI/FS (RFI/CMS) Work Plan	12/31/00	12/31/00 (F)
*M-13-25	Submit Uranium Rich Process Waste Group (200-PW-2) Work Plan	12/31/00	12/31/00 (F)
**M-24-00L	Install RCRA Groundwater Monitoring Wells at the Rate of up to 50 in Calendar Year 2000 if Required	12/31/00	12/31/00 (F)

Green

*Awaiting letter of direction from RL deferring this work scope beyond DWP FY 2001 – FY 2003.

**Number of wells and locations have been identified. Awaiting final TPA change request approval.

- DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PERFORMANCE OBJECTIVES: GW/VZ

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	<i>Manage groundwater plumes per interim RODs.</i>	<i>Baseline work is projected to be completed per PI requirements; BCP-20065 was submitted and approved to extend the ISRM drilling schedule as a result of late signing of the 100-HR-3 ROD.</i>
Transition Central Plateau to Support Long-Term Waste Management	<i>Complete system assessment capability.</i>	<i>Baseline work projected to be completed per PI requirements. BCP-20182 has been submitted to revise the path forward for development of SAC Rev. 0 computer software. This improved methodology will require a PI change which has been proposed in conjunction with the BCP.</i>
	<i>Soil sites assessments.</i>	<i>Baseline work projected to be completed per PI requirements.</i>
	<i>Manage groundwater plumes per interim RODs.</i>	<i>All measures projected to meet PI requirements; all baseline work projected to be completed per PI requirements.</i>

Green

PERFORMANCE MEASURES: GW/VZ

None planned in FY 2000.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

STRETCH AND SUPERSTRETCH GOALS: GW/VZ

FY00 GW/VZ "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Groundwater Management – Resin Purchase:		
(1) Resin Purchase (BCP-20115)	\$406.6K	\$406.6K
Complete Partitioning of Interwell Treatment at 200-ZP-1 and 200-ZP-2	\$299.4K	\$0.0K
S/Total GW – Vadose Zone Stretch Goals:	\$706.0K	\$406.6K

Green

FY00 GW/VZ "Superstretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Provide Permanent Solution for Hanford Groundwater Plumes	\$750.0K	\$0.0K
Complete Remediation of 60 Sq. Mi. of Hanford Site:		
(4) Verify and administratively close 170 wells	\$450.0K	\$0.0K
(5) Decommissioning of 200 wells	\$900.0K	\$0.0K
S/Total GW – Vadose Zone Superstretch Goals:	\$2,100.0K	\$0.0K

Green

Status: Plan and estimate developed, current work efforts focusing on stretch activities at this time.

PROJECT STATUS (COST/ SCHEDULE/MAJOR BASELINE CHANGE: GW/VZ

- Schedule:**

Groundwater Vadose Zone Integration	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER02 200 Area Remedial Actions	3,080	2,888	-192
ER08 Groundwater Management	14,283	12,762	-1,521
VZ01 Groundwater/Vadose Zone	6,524	5,336	-1,188
TOTAL Groundwater	23,887	20,986	-2,901

Green

PBS-ER02 – 200 Area Remedial Action (Assessment)

Schedule Variance = **-\$192K; -6.2%** [Last Month: -\$180K; -6.4%]

Cause: Miscellaneous assessment work rescheduled.

Resolution: None required.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: GW/VZ

PBS-ER08 – Groundwater Management

Schedule Variance = **-\$1521K; -10.6%** [Last Month: -\$1754K; -14.6%]

Cause: Groundwater Monitoring sampling collection and analysis (PNNL) fell behind schedule in October/November, due to difficulties in obtaining NCO bargaining unit personnel, and has not yet recovered. (Essentially no change to variance in April vs. March.)

Resolution: Additional NCOs have been added and a recovery schedule implemented; unexpected sampling at the 618-11 Burial Ground will impact recovery timing; full recovery is not expected before summer.

Cause: Waste shipments to ERDF and resin regeneration at Pump and Treat units have been delayed due to waste disposition issue; no significant impact.

Resolution: Waste regeneration shipments have been scheduled through Fluor Hanford.

Cause: Resin purchase and resin regeneration delayed due to waste issues.

Resolution: Resin has been purchased so schedule variance will correct itself (expected in May). Regeneration issues resolved.

Cause: Waste collection and offsite waste analysis slower than anticipated.

Resolution: Labor end contract issues have been resolved, recovery progressing but uncertain if full recovery can be achieved.

PBS-VZ01 – Groundwater/Vadose Zone

Schedule Variance = **-\$1188; -18.2%** [Last Month: -\$934K; -17.3%]

Cause: Peer review subpanel meeting was rescheduled; formation of characterization core team late.

Resolution: Expect full recovery on peer review scheduling; core team established; deliverable extended by RL.

Cause: Resource availability has delayed System Assessment Capability development.

Resolution: Subcontract staff has been added to supplement existing staff; expect recovery in July.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: GW/VZ

• **Cost:**

Groundwater Vadose Zone Integration	BCWP	ACWP	Variance
	\$K	\$K	\$K
<i>ER02 200 Area Remedial Actions</i>	2,888	2,058	830
<i>ER08 Groundwater Management</i>	12,762	12,324	438
<i>VZ01 Groundwater/Vadose Zone</i>	5,336	5,049	287
TOTAL Groundwater	20,986	19,431	1,555

Green

PBS-ER02 – 200 Area Remedial Action(Assessment)

Cost Variance = **+\$830K; +28.7%** [Last Month: +\$701K; +26.5%]

Cause: Efficiencies learned in prior work were applied to Gable Mountain and B-Pond test pit trenching, resulting in savings. Borehole drilling was combined with RCRA drilling resulting in cost savings.

Resolution: Savings will be used to perform other remediation work.

PBS-ER08 – Groundwater Management

Cost Variance = **+\$438K; +3.4%** [Last Month: +\$446K; +4.3%]

Cause: Underrun due to completion of drilling of ISRM ahead of schedule.

Resolution: Savings will be used to perform other remediation work.

PBS-VZ01 – Groundwater/Vadose Zone

Cost Variance = **+\$287K; +5.4%** [Last Month: +\$201K; +4.5%]

Cause: Costs of system assessment capability development less than planned and efficiencies in Science and Technology labor.

Resolution: Savings will be used to perform other remediation work.

REGULATORY ISSUES: GW/VZ

200-ZP-2: Regulatory agencies desire continued operation of the 200-ZP-2 vapor extraction unit (not included in DWP).

Yellow

Status: Project personnel met with EPA to discuss the need to restart ZP-2 pending completion of the cost estimate to perform the Partitioning Interwell Tracer Test (PITT) test. Project's recommendation is to perform PITT test. BHI portion of the PITT test estimate is complete. BHI internal management review will be performed once information from Duke Engineering is received.

Well Installation: RL provide funds for CY 2000 GW RCRA Well Installation.

Green

Status: On April 19, agreement was reached with Ecology to install fifteen RCRA groundwater monitoring wells for calendar year 2000 (TPA Milestone M-24-00L). Specific well locations have been identified. Awaiting TPA change request approval by Ecology.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

REGULATORY ISSUES continued: GW/VZ

200 Area Assessment: RL direction is needed on proceeding with the 200-PW-2 Work Plan. Initiating work on the 200-PW-2 OU is not consistent with funding levels nor RL's path forward strategy for the 200 Area.

Yellow

Status: TPA Milestone M-13-25 requires that the Draft A 200-PW-2 work plan be submitted to the regulators by December 31. DOE letter directing BHI to defer 200-PW-2 is in the approval cycle. This milestone is to be addressed by RL as part of a larger TPA renegotiation package.

618-11 Burial Ground Tritium: A high tritium value was identified in a monitoring well for the 618-11 Burial Ground.

Yellow

Status: A DQO summary report for the Phase II plume investigations near Burial Ground 618-11 is currently being prepared for regulator review. A brief plan of key characterization activities was summarized from this report to aid in review in document review. The Phase I report on the February sampling event is being prepared for release.

EXTERNAL ISSUES (i.e. HAB, Congress, etc.): GW/VZ

None identified at this time.

DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): GW/VZ

None identified at this time.

INTEGRATION ACTIVITIES: GW/VZ

None identified at this time.

Surveillance/Maintenance and Transition Project (SM&T)

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

SECTION C – TRANSITIONING THE CENTRAL PLATEAU

Financial / Performance Measures data as of month-end April.
All other data as of May 25, 2000. (unless otherwise noted)

Surveillance/Maintenance & Transition Project (SM&T):

ACCOMPLISHMENTS: SM&T

Removal of 105-KE waste is complete. At 105-KW, removal of legacy waste is complete.

Began the Readiness Assessment (RA) for the Pu Loadout Hood work.

Continued to move equipment off the cell cover blocks, lifting the cellblocks, videoing the contents and utilizing the gamma camera to take radiological profiles of the cells in support of CDI FS. Completed the railroad tunnel door repair activities. Received completed acceptance testing and training on the Brokk remotely operated core boring machine.

Green

SAFETY/ISMS/CONDUCT OF OPERATIONS: SM&T

See Executive Summary Section.

BREAKTHROUGHS/OPPORTUNITIES FOR IMPROVEMENT: SM&T

None identified at this time.

LONG-TERM (6 MONTHS PLUS) IMPORTANT ITEMS: SM&T

None identified at this time.

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS): SM&T

- **DOE Secretarial:**

None identified at this time.

- **DOE EM Performance Agreement:**

None identified at this time.

- **TPA Milestones:**

None identified at this time.

- **DNFSB Commitment:**

None identified at this time.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PERFORMANCE OBJECTIVES: SM&T

Outcome	Performance Indicator	Status
Restore the River Corridor for Multiple Uses	<i>Deactivation and preparation for decommission.</i>	<i>Baseline work is projected to be completed per PI requirements.</i>
Transition Central Plateau to Support Long-Term Waste Management	<i>Perform S&M/risk reduction on inactive facilities to eliminate/stabilize environmental, human health hazards until D&D; Perform CDI activities.</i>	<i>CDI baseline work projected to be completed per PI requirements. DOE-Waste Management funding shortfalls will require scope adjustment.</i>

Green

PERFORMANCE MEASURES: SM&T

None planned in FY 2000.

STRETCH AND SUPERSTRETCH GOALS: SM&T

FY00 SM&T "Stretch" Goals	Scope Dollars (K)	Approved BCPs (K)
Deactivate 183-N Water Treatment Plant (Phase I) (BCP-20111)	\$131.0K	\$131.0K
Deactivate 183-N Water Treatment Plant (Phase II) (BCP-20175)	\$158.8K	\$158.8K
Asbestos Abatement & Repairs (100, 200, & 300 Areas)	\$494.0K	\$0.0K
Complete the CDI Technical Work to Support the Phase II Feasibility Study	\$625.0K	\$0.0K
S/Total SM&T -Facility Transition Stretch Goals:	\$1,408.8K	\$289.8K

Green

Yellow

**Status: Requires funding support outside of ER to execute Superstretch.*

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE): SM&T

• **Schedule:**

Surveillance/Maintenance & Transition Project	BCWS	BCWP	Variance
	\$K	\$K	\$K
ER05 Surveillance & Maintenance	8,254	7,664	-590
ER07 Long-Term Surveillance & Maintenance	5	13	8
TOTAL SM&T	8,259	7,677	-582

Green

PBS-ER05 – Surveillance and Maintenance

Schedule Variance = **-\$590K; -7.1%** [Last Month: -\$506K; -7.9%]

Cause: Delivery of new 100 N water treatment plant skid is three weeks behind schedule.

Resolution: Skid was delivered May 18, and installation continues.

Cause: CDI process cell access work delayed due to canyon crane being down for repairs.

Resolution: Crane NDE completed – recommendations implemented; schedule expected to be recovered. (SV BCP approved by RL.)

PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$47K for FY 2000)

Schedule Variance = N/A

• **Cost:**

Surveillance/Maintenance & Transition Project	BCWP	ACWP	Variance
	\$K	\$K	\$K
ER05 Surveillance & Maintenance	7,664	7,921	-257
ER07 Long-Term Surveillance & Maintenance	13	20	-7
TOTAL SM&T	7,677	7,941	-264

Green

PBS-ER05 – Surveillance and Maintenance

Cost Variance = **-\$257K; -3.4%** [Last Month: -\$362K; -6.1%]

Cause: KE/KW legacy waste removal cost overrun.

Resolution: Overrun reflected in EAC.

Cause: 200 Area miscellaneous waste management and increased disposal costs for PHMC re-characterization.

Resolution: Project monitoring costs. Trends identified.

Cause: Underruns on B-Plant S&M and RARA stabilization from work practice efficiencies.

Resolution: Underrun will be utilized for other ER work.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT ENVIRONMENTAL RESTORATION

JUNE 2000

PROJECT STATUS (COST/SCHEDULE/MAJOR BASELINE CHANGE) continued: SM&T
<p>PBS-ER07 – Long-Term Surveillance and Maintenance (BCWS \$47K for FY 2000) <i>Cost Variance = N/A</i></p>
REGULATORY ISSUES: SM&T
<p><i>None identified at this time.</i></p>
EXTERNAL ISSUES (i.e. HAB, Congress, etc.): SM&T
<p><i>None identified at this time.</i></p>
DOE-RL & HQ ISSUES/REQUESTS (not covered elsewhere): SM&T
<p>B-Plant/Purex Roof Funding: Ensure funding is provided by Transition Projects per MOUs, to support roof repair commitments for B-Plant and Purex. Facilities have transitioned to ER with the commitment to fund these repairs from the releasing Project.</p> <p style="text-align: right;"><div style="border: 2px solid black; padding: 2px; display: inline-block;">Yellow</div></p> <p>Status: Funding for roof repairs has not been included within the current above -the- line Integrated Priority Lists (IPL) targets.</p> <p>Stack Ventilation: Problems with stack ventilation , retired filters, and other issues documented in letter, M. C. Hughes to R. Gerton, 9/28/99, "Remaining Issues for the Transition of the B-Plant Facility from DOE-Transition to ER"</p> <p style="text-align: right;"><div style="border: 2px solid black; padding: 2px; display: inline-block;">Yellow</div></p> <p>Status: Facility transferred to ERC September 30, 1999. MOA with open items assigned cost/schedule responsibility received September 30. Fluor Hanford, Inc. (FHI) repaired the ductwork on May 2, and performed a leak test of the areas repaired. BHI issued a letter on May 3 to FHI requesting additional information and testing be performed on the exhaust fan assembly in order to meet requirements to assure the repaired assembly will continue to operate correctly. Received response May 22. Evaluation is in progress on response.</p>
INTEGRATION ACTIVITIES: SM&T
<p><i>None identified at this time.</i></p>